

# Region 3 Environmental Science Center Office of Analytical Services and Quality Assurance 701 Mapes Road Fort Meade, Maryland 20755-5350



### Report Narrative

The EPA Region 3 Laboratory's Quality System is NELAP accredited. The National Environmental Laboratory Accreditation Program (NELAP) is a voluntary environmental laboratory accreditation association of State and Federal agencies

#### General Notes:

This report contains results for Metals and Glycols analyses only. All other parameters identified on the chain-of-custody form are included in separate reports. Lab Sample numbers 1202004-05, -10, -12, -18 and 1202004-45 thru -49 are not included in this report since these samples were designated for Volatile Organic analysis only.

For Work Order 1202004 - This is Report 1 of 3.

The sample vial for the Glycols analysis was received broken for 1202004-22. All samples were received at proper temperature

All samples were analyzed using the Total Phosphate method and results for the analysis by the Orthophosphorous method are not included in this report. Since the Orthophosphorous method was being used as a screening method to determine the need to analyze the sample by the Total Phosphate method, results for Total Phosphate are not impacted.

Samples designated for the analysis of Oil & Grease were received in sample containers inconsistent with the type needed for the routine extraction procedure. Therefore, all samples were extracted using the manual extraction technique

Where applicable, sample results are qualified based on the highest level concentrations of field QC contamination found in the field, equipment, or trip blanks.

#### Metals Analysis Note:

Uranium, strontium, lithium, tin and titanium were analyzed as an on-demand analysis.

#### Glycols by HPLC/MS/MS Note:

Samples were analyzed for diethylene glycol(DiG) (CAS# 111-46-6), triethylene glycol (TriG) (112-27-6), tetraethylene glycol (TeG) (112-60-7), 2-butoxyethanol (2-Bu) (111-76-2) and 2-methoxyethanol (109-86-4) by HPLC/MS/MS (inst id: TQD-LCMSMS) on a Waters Atlantis dC18 3um 2.1 x 150mm column (s/n-0141301481).

An HPLC/MS/MS method does not currently exist for these analytes ASTM D 7731-11 and EPA SW-846 Methods 8000C and 8321 were followed for method development and QA/QC limits where applicable. All applicable OASQA On Demand QA/QC protocols were followed.

The aqueous samples were injected without extraction onto the HPLCMS/MS system

Refer to notes in the case file for additional information regarding the analysis

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Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5350



Site Name: Dimock Residential Groundwater

Project #: DAS R33907

#### ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Matrix	Date Sampled	Date Received
HW48	1202004-01	Drinking Water	02/08/12 16:06	02/10/12 11:20
HW48-F	1202004-02	Drinking Water	02/08/12 16:06	02/10/12 11:20
HW48z	1202004-03	Drinking Water	02/08/12 16:06	02/10/12 11:20
HW48z-F	1202004-04	Drinking Water	02/08/12 16:06	02/10/12 11:20
HW2I	1202004-06	Drinking Water	02/09/12 10:53	02/10/12 11:20
HW21-F	1202004-07	Drinking Water	02/09/12 10:53	02/10/12 11:20
HW21z	1202004-08	Drinking Water	02/09/12 10:53	02/10/12 11:20
HW21z-F	1202004-09	Drinking Water	02/09/12 10:53	02/10/12 11:20
HW23-P	1202004-11	Drinking Water	02/08/12 15:39	02/10/12 11:20
HW22	1202004-13	Drinking Water	02/09/12 10:42	02/10/12 11:20
HW22-F	1202004-14	Drinking Water	02/09/12 10:42	02/10/12 11:20
HW23	1202004-15	Drinking Water	02/08/12 15:42	02/10/12 11:20
HW23-F	1202004-16	Drinking Water	02/08/12 15:42	02/10/12 11:20
HW22-P	1202004-17	Drinking Water	02/09/12 10:50	02/10/12 11:20
HW23-PF	1202004-19	Drinking Water	02/08/12 15:39	02/10/12 11:20
HW22-PF	1202004-20	Drinking Water	02/09/12 10:50	02/10/12 11:20
HW36n	1202004-21	Drinking Water	02/10/12 10:53	02/11/12 10:04
HW49	1202004-22	Drinking Water	02/09/12 14:11	02/11/12 10:04
HW16-P	1202004-23	Drinking Water	02/10/12 11:37	02/11/12 10:04
HW54-P	1202004-24	<b>Drinking Water</b>	02/10/12 14:30	02/11/12 10:04
FB14	1202004-25	Water	02/09/12 13:36	02/11/12 10:04
HW16z	1202004-26	<b>Drinking Water</b>	02/10/12 11:22	02/11/12 10:04
HW16	1202004-27	Drinking Water	02/10/12 11:21	02/11/12 10:04
HW44	1202004-28	Drinking Water	02/09/12 14:49	02/11/12 10:04
HW49-P	1202004-29	Drinking Water	02/09/12 14:26	02/11/12 10:04
HW36n-P	1202004-30	Drinking Water	02/10/12 11:02	02/11/12 10:04

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Site Name: Dimock Residential Groundwater

Project #: DAS R33907

#### **ANALYTICAL REPORT FOR SAMPLES**

Station ID	Laboratory ID	Matrix	Date Sampled	Date Received
FB15	1202004-31	Water	02/10/12 11:21	02/11/12 10:04
HW54	1202004-32	Drinking Water	02/10/12 14:08	02/11/12 10:04
HW36n-F	1202004-33	<b>Drinking Water</b>	02/10/12 10:53	02/11/12 10:04
HW49-F	1202004-34	Drinking Water	02/09/12 14:11	02/11/12 10:04
HW54-PF	1202004-35	Drinking Water	02/10/12 14:30	02/11/12 10:04
HW16-PF	1202004-36	Drinking Water	02/10/12 11:37	02/11/12 10:04
FB14-F	1202004-37	Water	02/09/12 13:36	02/11/12 10:04
HW16z-F	1202004-38	Drinking Water	02/10/12 11:22	02/11/12 10:04
HW16-F	1202004-39	Drinking Water	02/10/12 11:21	02/11/12 10:04
HW44-F	1202004-40	Drinking Water	02/09/12 14:49	02/11/12 10:04
HW54-F	1202004-41	Drinking Water	02/10/12 14:08	02/11/12 10:04
HW36n-PF	1202004-42	Drinking Water	02/10/12 11:02	02/11/12 10:04
HW49-PF	1202004-43	Drinking Water	02/09/12 14:26	02/11/12 10:04
FB15-F	1202004-44	Water	02/10/12 11:21	02/11/12 10:04



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# **Total Metals**

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID: Station ID: Sample Matrix: Collected:	1202004-01 HW48 Drinking Water 02/08/2012						¥	
Mercury	U		0.2	ug/L	1	02/21/12	02/22/12 12:06	EPA 245.1/R3QA131
Lab ID: Station ID: Sample Matrix: Collected:	1202004-02 HW48-F Drinking Water 02/08/2012						<b>*</b> /	
Мегсигу	U		0.2	ug/L	1	02/21/12	02/22/12 01:00	EPA 245.1/R3QA131
Lab ID: Station ID: Sample Matrix: Collected:	1202004-03 HW48z Drinking Water 02/08/2012							
Mercury	U	nga likupan di Albanda kan dali prinjan Sandina anda anama	0.2	ug/L	1	02/21/12	02/22/12 01:03	EPA 245.1/R3QA131
Lab ID: Station ID: Sample Matrix: Collected:	1202004-04 HW48z-F Drinking Water 02/08/2012							
Mercury	U		0.2	ug/L	1	02/21/12	02/22/12 01:09	EPA 245.1/R3QA131
Lab ID: Station ID: Sample Matrix: Collected:	1202004-06 HW21 Drinking Water 02/09/2012							
Mercury	Ū		0.2	ug/L	1	02/21/12	02/22/12 01:11	EPA 245.1/R3QA131

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Site Name: Dimock Residential Groundwater

Project #: DAS R33907

# **Total Metals**

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID: Station ID: Sample Matrix: Collected:	1202004-07 HW21-F Drinking Water 02/09/2012			No. of the control of				- 1000 B
Mercury	Ŭ		0.2	ug/L	Î	02/21/12	02/22/12 01:13	EPA 245.1/R3QA131
Lab ID: Station ID: Sample Matrix: Collected:	1202004-08 HW21z Drinking Water 02/09/2012							
Mercury	Ŭ		0.2	ug/L	1	02/21/12	02/22/12 01:15	EPA 245.1/R3QA131
Lab ID: Station ID: Sample Matrix: Collected:	1202004-09 HW21z-F Drinking Water 02/09/2012			. 186				
Mercury	U		0.2	ug/L	1	02/21/12	02/22/12 01:17	EPA 245.1/R3QA131
Lab ID: Station ID: Sample Matrix: Collected:	1202004-11 HW23-P Drinking Water 02/08/2012							
Mercury	U		0.2	ug/L	1	02/21/12	02/22/12 01:19	EPA 245.1/R3QA131
Lab ID: Station ID: Sample Matrix: Collected:	1202004-13 HW22 Drinking Water 02/09/2012					-		
Mercury	U.		0.2	ug/L	1	02/21/12	02/22/12 01:21	EPA 245.1/R3QA131

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# **Total Metals**

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID: Station ID: Sample Matrix: Collected:	1202004-14 HW22-F Drinking Water 02/09/2012							
Mercury	U		0.2	ug/L	1	02/23/12	02/24/12 10:48	EPA 245.1/R3QA131
Lab ID: Station ID: Sample Matrix: Collected:	1202004-15 HW23 Drinking Water 02/08/2012							
Mercury	Ü		0.2	ug/L	1	02/23/12	02/24/12 10:52	EPA 245.1/R3QA131
Lab ID: Station ID: Sample Matrix: Collected:	1202004-16 HW23-F Drinking Water 02/08/2012							
Mercury	U		0.2	ug/L	1	02/23/12	02/24/12 10:56	EPA 245.1/R3QA131
Lab ID: Station ID: Sample Matrix: Collected:	1202004-17 HW22-P Drinking Water 02/09/2012				ė			
Mercury	Ü		0.2	ug/L	1	02/23/12	02/24/12 10:58	EPA 245.1/R3QA131
Lab ID: Station ID: Sample Matrix: Collected:	1202004-19 HW23-PF Drinking Water 02/08/2012	:: <del>:</del>	·		· ·			
Mercury	U		0.2	ug/L	1	02/23/12	02/24/12 11:00	EPA 245.1/R3QA131

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# **Total Metals**

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID: Station ID: Sample Matrix: Collected:	1202004-20 HW22-PF Drinking Water 02/09/2012							
Mercury	U		0.2	ug/L	1	02/23/12	02/24/12 11:06	EPA 245.1/R3QA131
Lab ID: Station ID: Sample Matrix: Collected:	1202004-21 HW36n Drinking Water 02/10/2012							
Mercury	U		0.2	ug/L	Ì	02/23/12	02/24/12 11:07	EPA 245.1/R3QA131
Lab ID: Station ID: Sample Matrix: Collected:	1202004-22 HW49 Drinking Water 02/09/2012							
Mercury	U		0.2	ug/L	1	02/23/12	02/24/12 11:09	EPA 245.1/R3QA131
Lab ID: Station ID: Sample Matrix: Collected:	1202004-23 HW16-P Drinking Water 02/10/2012							
Mercury	<u> </u>	4	0.2	ug/L	1	02/23/12	02/24/12 11:11	EPA 245.1/R3QA131
Lab ID: Station ID: Sample Matrix: Collected:	1202004-24 HW54-P Drinking Water 02/10/2012							
Mercury	U	· <b>···</b> ································	0.2	ug/L	1	02/23/12	02/24/12 11:13	EPA 245.1/R3QA131

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# **Total Metals**

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID: Station ID: Sample Matrix: Collected:	1202004-25 FB14 Water 02/09/2012		осеновничного в придости	<del></del>	amananan dike dikad			Medical SOT II
Мегсигу	U		0.2	ug/L	1.	02/23/12	02/24/12 11:17	EPA 245.1/R3QA131
Lab ID: Station ID: Sample Matrix: Collected:	1202004-26 HW16z Drinking Water 02/10/2012					н		
Mercury	U		0.2	ug/L	1	02/23/12	02/24/12 11:19	EPA 245.1/R3QA131
Lab ID: Station ID: Sample Matrix: Collected:	1202004-27 HW16 Drinking Water 02/10/2012							
Mercury	U		0.2	ug/L	1	02/23/12	02/24/12 11:23	EPA 245.1/R3QA131
Lab ID: Station ID: Sample Matrix: Collected:	1202004-28 HW44 Drinking Water 02/09/2012	-				w		
Mercury	U		0.2	ug/L	1	02/23/12	02/24/12 11:31	EPA 245.1/R3QA131
Lab ID: Station ID: Sample Matrix: Collected:	1202004-29 HW49-P Drinking Water 02/09/2012							
Mercury	U		0.2	ug/L	l	02/23/12	02/24/12 11:33	EPA 245.1/R3QA131

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Site Name: Dimock Residential Groundwater

Project #: DAS R33907

# **Total Metals**

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID: Station ID: Sample Matrix: Collected:	1202004-30 HW36n-P Drinking Water 02/10/2012							
Mercury	U		0.2	ug/L	1	02/23/12	02/24/12 11:35	EPA 245.1/R3QA131
Lab ID: Station ID: Sample Matrix: Collected:	1202004-31 FB15 Water 02/10/2012							
Mercury	Ü	*** <del>*********************************</del>	0.2	ug/L	1	02/23/12	02/24/12 11:37	EPA 245.1/R3QA131
Lab ID: Station ID: Sample Matrix: Collected:	1202004-32 HW54 Drinking Water 02/10/2012							
Mercury	Ü		0.2	ug/L	i.	02/23/12	02/24/12 11:39	EPA 245.1/R3QA131
Lab ID: Station ID: Sample Matrix: Collected:	1202004-33 HW36n-F Drinking Water 02/10/2012							
Mercury	U		0.2	ug/L	ı	02/23/12	02/24/12 11:41	EPA 245.1/R3QA131
Lab ID: Station ID: Sample Matrix: Collected:	1202004-34 HW49-F Drinking Water 02/09/2012							
Mercury	<b>U</b>		0.2	ug/L	Í	02/23/12	02/24/12 11:43	EPA 245.1/R3QA131

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# **Total Metals**

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	. Method/SOP#
Lab ID: Station ID: Sample Matrix: Collected:	1202004-35 HW54-PF Drinking Water 02/10/2012	े जु						
Mercury	Ü		0.2	ug/L	1	02/23/12	02/24/12 11:53	EPA 245.1/R3QA131
Lab ID: Station ID: Sample Matrix: Collected:	1202004-36 HW16-PF Drinking Water 02/10/2012							
Mercury	Ü		0.2	ug/L	1	02/23/12	02/24/12 11:57	EPA 245.1/R3QA131
Lab ID: Station ID: Sample Matrix: Collected:	1202004-37 FB14-F Water 02/09/2012							
Mercury	U	**.·	0.2	ug/L	1	02/23/12	02/24/12 12:01	EPA 245.1/R3QA131
Lab ID: Station ID: Sample Matrix: Collected:	1202004-38 HW16z-F Drinking Water 02/10/2012			"\ 	<b>*</b>			
Mercury	U	idi	0.2	ug/L	I	02/23/12	02/24/12 12:03	EPA 245.1/R3QA131
Lab ID: Station ID: Sample Matrix: Collected:	1202004-39 HW16-F Drinking Water 02/10/2012							
Mercury	ju ju		0.2	ug/L	I	02/23/12	02/24/12 12:05	EPA 245.1/R3QA131

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Site Name: Dimock Residential Groundwater

Project #: DAS R33907

# **Total Metals**

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID: Station ID: Sample Matrix: Collected:	1202004-40 HW44-F Drinking Water 02/09/2012							
Mercury	Ŭ		0.2	ug/L	1	02/23/12	02/24/12 12:07	EPA 245.1/R3QA131
Lab ID: Station ID: Sample Matrix: Collected:	1202004-41 HW54-F Drinking Water 02/10/2012					ķ. ,		
Mercury	U		0.2	ug/L	1	02/23/12	02/24/12 12:09	EPA 245.1/R3QA131
Lab ID: Station ID: Sample Matrix: Collected:	1202004-42 HW36n-PF Drinking Water 02/10/2012						w.	
Mercury	U		0.2	ug/L	1	02/23/12	02/24/12 12:11	EPA 245.1/R3QA131
Lab ID: Station ID: Sample Matrix: Collected:	1202004-43 HW49-PF Drinking Water 02/09/2012							
Mercury	U		0.2	ug/L	1	02/23/12	02/24/12 12:16	EPA 245.1/R3QA131
Lab ID: Station ID: Sample Matrix: Collected:	1202004-44 FB15-F Water 02/10/2012							
Mercury	U	<b>S</b>	0.2	ug/L	1	02/23/12	02/24/12 12:18	EPA 245.1/R3QA131

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### Region 3 Environmental Science Center Office of Analytical Services and Quality Assurance 701 Mapes Road Fort Meade, Maryland 20755-5350



Site Name: Dimock Residential Groundwater

Project #: DAS R33907

%REC

# QC Data **Total Metals**

Spike

Source

Quantitation

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BB21504 - Mercury 245.1/24	5.2/7470a Prep			okuilkiissassa ja					,,,,,	
Blank (BB21504-BLK1)				Prepared:	02/21/12	11:45	Analyzed:	02/22/12	12:52	
Mercury	U	0.2	ug/L							
LCS (BB21504-BS1)				Prepared:	02/21/12	11:45	Analyzed:	02/22/12	12:54	2
Mercury	1.798	0.2	ug/L	2.0000		90	85-115			
Duplicate (BB21504-DUP1)	Sour	ce: 120200	4-01	Prepared:	02/21/12	11:45	Analyzed:	02/22/12	12:58	
Mercury	ប	0.2	ug/L	~	U				20	
Matrix Spike (BB21504-MS1)	Sour	ce: 120200	4-02	Prepared:	02/21/12	11:45	Analyzed:	02/22/12	01:01	
Mercury	1.752	0.2	ug/L	2.0000	U	88	70-130			
Batch BB22202 - Mercury 245.1/24	5.2/7470a Prep							ainettinistensinennannan		
					00/00/10	10.25	Analyzed:	02/24/12	10:42	
Blank (BB22202-BLK1)		OMMONIA OF THE OWNER OWNE		Prepared:	02/23/12	5 <b>V</b> , 22 V	Anatyzeu.	V&I&7116	10.42	
Blank (BB22202-BLK1) Mercury	U	0.2	ug/L	Prepared:	02/23/12		Analyzeu.	V2127116	10.72	
	IJ	0.2	ug/L	Prepared:  Prepared:			Analyzed:		W	
Mercury	U U	0.2	ug/L	:					W	
Mercury Blank (BB22202-BLK2)				:	02/23/12	10:25		02/24/12	11:16	
Mercury Blank (BB22202-BLK2) Mercury				Prepared:	02/23/12	10:25	Analyzed:	02/24/12	11:16	
Mercury Blank (BB22202-BLK2) Mercury Blank (BB22202-BLK3) Mercury		0.2	ug/L	Prepared:	02/23/12	10:25 10:25	Analyzed:	02/24/12 02/24/12	11:16	
Mercury Blank (BB22202-BLK2) Mercury Blank (BB22202-BLK3)		0.2	ug/L	Prepared:	02/23/12	10:25 10:25	Analyzed:	02/24/12 02/24/12	11:16	
Mercury Blank (BB22202-BLK2) Mercury Blank (BB22202-BLK3) Mercury LCS (BB22202-BS1)	Ü	0.2	ug/L	Prepared: Prepared: Prepared:	02/23/12 02/23/12 02/23/12	10:25 10:25 10:25 92	Analyzed: Analyzed: Analyzed:	02/24/12 02/24/12 02/24/12	11:16 11:45 10:44	40 40 40 40 40 40 40 40 40 40 40 40 40 4

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Site Name: Dimock Residential Groundwater

Project #: DAS R33907

### QC Data **Total Metals**

4 14 14 14 14 14 14 14 14 14 14 14 14 14	Q	uantitation		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BB22202 - Mercury 245.1/2	45.2/7470a Prep									
Duplicate (BB22202-DUP1)	Sour	ce: 120200	4-14	Prepared:	02/23/12	10:25	Analyzed: (	)2/24/12	10:50	,
Мегсигу	U	0.2	ug/L		U				20	
Duplicate (BB22202-DUP2)	Sour	ce: 120200	4-26	Prepared:	02/23/12	10:25	Analyzed: (	)2/24/12	11:21	
Mercury	U	0.2	ug/L		U				20	
Duplicate (BB22202-DUP3)	Sour	ce: 120200	4-35	Prepared:	02/23/12	10:25	Analyzed: (	02/24/12	11:55	
Mercury	U	0.2	ug/L		U				20	
Matrix Spike (BB22202-MS1)	Sour	ce: 120200	4-15	Prepared:	02/23/12	10:25	Analyzed: (	)2/24/12	10:54	
Mercury	1.861	0.2	ug/L	2.0000	U	93	70-130			
Matrix Spike (BB22202-MS2)	Sour	ce: 120200	4-27	Prepared:	02/23/12	10:25	Analyzed: (	2/24/12	11:29	
Mercury	1.831	0.2	ug/L	2.0000	U	92	70-130	ar (amerija)godi kili ini popujano		
Matrix Spike (BB22202-MS3)	Sour	ce: 120200	4-36	Prepared:	02/23/12	10:25	Analyzed: (	)2/24/12	11:59	
Mercury	1.852	0.2	ug/L	2.0000	U	93	70-130			***************************************

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Site Name: Dimock Residential Groundwater

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#### **Notes and Definitions**

%REC

Percent Recovery

**RPD** 

Relative Percent Difference

U

Analyte included in the analysis, but not detected at or above the quantitation limit.

Quantitation Limit: The lowest concentration of an analyte that can be reliably measured within specified limits of precision and accuracy for a specific laboratory analytical method and that takes into account analytical adjustments made during sample preparation and analysis

REPORTING PROTOCOL FOR SOLID SAMPLE RESULTS: Percent Solids (percent dry wt at 105 degrees C) determinations are routinely performed for most organic and inorganic analyses. Consequently, these samples are analyzed wet and converted to a dry weight result for reporting purposes. If metals and mercury analyses are requested, they are routinely prepared for analyses by an initial drying at 60 degrees C, homogenized prior to digestion, and are analyzed and reported on a dry weight basis. Oil-type samples are analyzed and reported on a wet weight basis for all analyses because of the nature of the sample matrix. Any exceptions to this protocol will be noted in the narrative.

> 12020Ø4 DRAFT 02 24 12 1441 Page 14 of 15

DIM0200100



# Region 3 Environmental Science Center Office of Analytical Services and Quality Assurance 701 Mapes Road Fort Meade, Maryland 20755-5350



#### Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
	Total Mercury by 245.1	(Water)	Special Units: (ug/L)
1202004-01	Total Mercury by 245.1		Status is Analyzed
1202004-02	Total Mercury by 245.1		Status is Analyzed
1202004-03	Total Mercury by 245.1		Status is Analyzed
1202004-04	Total Mercury by 245.1		Status is Analyzed
1202004-06	Total Mercury by 245.1		Status is Analyzed
1202004-07	Total Mercury by 245.1		Status is Analyzed
1202004-08	Total Mercury by 245.1		Status is Analyzed
1202004-09	Total Mercury by 245.1		Status is Analyzed
1202004-11	Total Mercury by 245.1		Status is Analyzed
1202004-13	Total Mercury by 245.1		Status is Analyzed
1202004-14	Total Mercury by 245.1		Status is Analyzed
1202004-15	Total Mercury by 245.1		Status is Analyzed
1202004-16	Total Mercury by 245.1		Status is Analyzed
1202004-17	Total Mercury by 245.1		Status is Analyzed
1202004-19	Total Mercury by 245.1		Status is Analyzed
1202004-20	Total Mercury by 245.1		Status is Analyzed
1202004-21	Total Mercury by 245.1		Status is Analyzed
1202004-22	Total Mercury by 245.1		Status is Analyzed
1202004-23	Total Mercury by 245.1		Status is Analyzed
1202004-24	Total Mercury by 245.1		Status is Analyzed
1202004-25	Total Mercury by 245.1		Status is Analyzed
1202004-26	Total Mercury by 245.1		Status is Analyzed
1202004-27	Total Mercury by 245.1		Status is Analyzed
1202004-28	Total Mercury by 245.1		Status is Analyzed
1202004-29	Total Mercury by 245.1		Status is Analyzed
1202004-30	Total Mercury by 245.1		Status is Analyzed
1202004-31	Total Mercury by 245.1		Status is Analyzed
1202004-32	Total Mercury by 245.1		Status is Analyzed
1202004-33	Total Mercury by 245.1		Status is Analyzed
1202004-34	Total Mercury by 245.1		Status is Analyzed
1202004-35	Total Mercury by 245.1		Status is Analyzed
1202004-36	Total Mercury by 245.1		Status is Analyzed
1202004-37	Total Mercury by 245.1		Status is Analyzed
1202004-38	Total Mercury by 245.1		Status is Analyzed
1202004-39	Total Mercury by 245.1		Status is Analyzed
1202004-40	Total Mercury by 245.1		Status is Analyzed
1202004-41	Total Mercury by 245.1		Status is Analyzed
1202004-42	Total Mercury by 245.1		Status is Analyzed
1202004-43	Total Mercury by 245.1		Status is Analyzed
1202004-44	Total Mercury by 245.1		Status is Analyzed

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S:1	Calibration Blank	Standard	1.00	1.00	1.00
S:2	Standard #1 (.0.2)	Standard	1.00	1.00	1.00
S:3	Standard #2 (0.5)	Standard	1.00	1.00	1.00
S:4	Standard #3 (1.0)	Standard	1.00	1.00	1.00
S:5	Standard #4 (2.0)	Standard	1.00	1.00	1.00
S:6	Standard #5 (3.0)	Standard	1.00	1.00	1.00
S:7	Standard #6 (5.0)	Standard	1.00	1.00	1.00
S:5	ICV	ICV	1.00	1.00	1.00
S:1	ICB	ICB	1.00	1.00	1.00
1:1	LCS	LCS	1.00	1.00	1.00
S:5	CCV	CCV	1.00	1.00	1.00
S:1	ССВ	CCB	1.00	1.00	1.00
1:2	Method Blank 1	Method Blank	1.00	1.00	1.00
1:3	QC Spike 1	QC Spike	1.00	1.00	1.00
1:4	0.2 std as sample	Unknown	1.00	1.00	1.00
1:5	1202003-26	Unknown	1.00	1.00	1.00
1:6	1202003-26dup	Duplicate	1.00	1.00	1.00
1:7	1202003-27	Unknown	1.00	1.00	1.00
1:8	1202003-27spike \	Matrix Spike	1.00	1.00	1.00
1:9	1202003-28	Unknown	1.00	1.00	1.00
1:10	1202003-29	Unknown	1.00	1.00	1.00
1:11	1202003-30	Unknown	1,00	1.00	1.00
S:5	CCV	CCV	1.00	1.00	1.00
S:1	CCB	CCB	1.00	1.00	1.00
1:12	1202003-31	Unknown	1.00	1.00	1.00
1:13	1202003-32	Unknown	1.00	1.00	1.00
1:14	1202003-33	Unknown	1.00	1.00	1.00
1:15	1202003-34	Unknown	1.00	1.00	1.00
1:16	1202003-35	Unknown	1.00	1.00	1.00
1:17	Method Blank 2	Method Blank	1.00	1.00	1.00
1:18	1202003-36	Unknown	1,001	1.00	1.00
1:19	1202003-36 1202003-36dup 1202003-37 1202003-37spike	Duplicate n	1.00	1.00	1.00
1:20	1202003-37	Unknown	∜ 1.00	1.00	1.00
1:21	1202003-37spike	Matrix Spike ( )	1.00	4.00	1.00
S:5	CCV	ccv //	1.00	1.00	1.00
S:1	ССВ	CCB	1.00	1.00	1.00
1:22	1202003-38	Unknown	1.00	1.00	1.00
1:23	1202003-39	Unknown	1.00	1.00	1.00
1:24	1202003-40	Unknown	1.00	1.00	1.00
1:25	1202003-41	Unknown	1.00	1.00	1.00
1:26	1202003-42	Unknown	1.00	1.00	1.00
1:27	1202003-43	Unknown	1,00	1.00	1.00
1:28	1202003-44	Unknown	1.00	1.00	1.00
1:29	1202003-45	Unknown	1.00	1.00	1.00
1:30	Method Blank 3	Method Blank	1.00	1.00	1.00
1:31	1202003-46	Unknown	1.00	1.00	1.00
S:5	CCV	CCV	1.00	1.00	1.00
S:1	CCB /	CCB	1.00	1.00	1.00
1:32	1202003-46dup	Duplicate	1.00	1.00	1.00
1:33	1202003-47	Unknown	1.00	1.00	1.00
1:34	1202003-47spike	Matrix Spike	1.00	1.00	1.00
1:35	Method Blank 1	Method Blank	1.00	1.00	1.00
1:36	QC Spike 3/8 7 55 1/4/12	QC Spike	1.00	1.00	1.00
1:37	1202004-01	Unknown	1.00	1.00	1.00
1:38	1202004-01dup	Duplicate	1.00	1.00	1.00
	O Lula man	561			

Dinnel NO 120004 Sufus 2/24/12

1:39	1202004-02	Unknown	1.00	1.00	1.00
1:40	1202004-02spike	Måtrix Spike	1.00	1.00	1.00
1:41	1202004-03	Unknown	1.00	1.00	1.00
S:5	cov - hange to 3pb	CCV	1.00	1.00	1.00
8:1	CCB	CCB	1.00	1.00	1.00
1:42	1202004-04	Unknown	1.00	1.00	1.00
1:43	1202004-06	Unknown	1.00	1.00	1.00
1:44	1202004-07	Unknown	1.00	1.00	1.00
1:45	1202004-08	Unknown	1.00	1.00	1.00
1:46	1202004-09	Unknown	1.00	1.00	1.00
1:47	1202004-11	Unknown	1.00	1.00	1.00
1:48	1202004-13	Unknown	1.00	1.00	1.00
S:5	CCV - change to 30pb	GCV	1.00	1.00	1.00
9/1	CCB	CCB	1.00	1.00	1.00

Dennek 1202004 Suefrico 2/24/12

DRAFT

# CETAC Hg Analysis Report

Analyst: Mercury Analyzer

Worksheet file: C:\Program Files\QuickTrace\Worksheets\Dimock 9th.wsz

Date Started: 2/21/2012 1:20:55 PM

Comment:

# Results

Sample Name	Туре	Date/Time	Conc (ppb)	μAbs	%RSD Flags	Wt. V
Calibration Blank	STD	02/22/12 11:11:02 am	0.0000	4204	1.75	1.00 1.00
Standard #1 (.0.2)	STD	02/22/12 11:12:59 am	0.2000	6983	0.97	1.00
Standard #2 (0.5)	STD	02/22/12 11:14:58 am	0.5000	11070	0.53	1.00 1.00
Standard #3 (1.0)	STD	02/22/12 11:16:56 am	1.0000	18176	0.29	1.00
Standard #4 (2.0)	STD	02/22/12 11:18:56 am	2.0000	31513	0.34	1.00 1.00
Standard #5 (3.0) Standard #6 (5.0)	STD	02/22/12 11:20:56 am	3.0000	44671	0.31	1.00
Standard #6 (5.0)	STD	02/22/12 11:22:56 am	5.0000	70785	1.36	1.00
Calibration  Equation: A = 4509.933 + 13319.130C  R2: 0.99985  SEE: 327.9056  Flags:		70,000 60,000 50,000 40,000 30,000 10,000	2 3 Concentration (	A oppb)	-5	
% Recovery 103.40	ICV	02/22/12 11:24:55 am	2.0680	32054	1.52	1.00 1.00
СВ	ICB	02/22/12 11:26:52 am	-0.0152	4307	1.57	1.00
.cs	LCS	02/22/12 11:28:50 am	1.8320	28910	0,33	1.00

Demock WO 1202004
Dimock 9th.wsz

2/22/2012 1:26:33 PM

DIM0200120

1.00

Pa

% Recovery

Sample Name	Туре	Date/Time	Conc (ppb)	μAbs	%RSD Flags	Wt.
CCV % Recovery 105.68	ccv	02/22/12 11:30:49 am	2.1140	32662	0.72	1.00
ССВ	ССВ	02/22/12 11:32:46 am	-0.0122	4348	·0.54	1.00
Method Blank 1	МВ	02/22/12 11:34:43 am	-0.2518	1157	0.36	1.00
QC Spike 1 % Recovery 99.26	SPK	02/22/12 11:36:41 am	1.7330	27597	0.33	1.00 1.00
0.2 std as sample 7 V= 0, 2	. UNK	02/22/12 11:38:39 am	0.1971	7135	0.67	1.00
1202003-26	971 = 99% UNK	02/22/12 11:40:37 am	-0.2494	1188	0.28	1.00 1.0
1202003-26dup	DUP	02/22/12 11:42:35 am	-0.2542	1125	0.26 D	1.00 1.0
1202003-27	UNK	02/22/12 11:44:34 am	-0.2520	1153	0.46	1.00 1.0
202003-27spike % Recovery 103.17	Msk	02/22/12 11:46:35 am	1,8110	28637	0.28	1.00 1.0
202003-28	UNK	02/32/10 41:48:32 am	-0.2483	1203	0.17	1.00 1.0
202003-29	/ July unik	02/22/12 11:50:32 am	-0.2509	1169	0.36	1.00 1.0
202003-30	Wer W UNK	02/22/12 11:52:32 am	-0.2498	1182	0.18	1.00 1.0
CV % Recovery 104.50	ccv	02/22/12 11:54:31 am	2.0900	32347	0.80	1.00 1.0
CB	ссв	02/22/12 11:56:28 am	-0.0033	4466	0.50	1. <b>00</b> 1.0
202003-31	UNK	02/22/12 11:58:28 am	-0.2452	1244	0.33	1,00 1.0
202003-32	UNK	02/22/12 12:00:25 pm	-0.2466	1225	0.16	1.00 1.0
202003-33	UNK	02/22/12 12:02:22 pm	-0.2500	1181	0.14	1.00 1.0
Rus	neck WO 120200 his 2/24/12	nd.				
22/2012 1:26:33 PM	neio 2/24/12	Dîmock 9th wsz	and white mineral is the best south of the	and have a pro-	g pagada a a sanara a da a cara a sanara da	arranga i amang mengalah dan salah dan

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Sample Name	Туре	Date/Time	Cone (ppb)	μAbs	%RSD Flags	r:	Wt.
1202003-34	UNK	02/22/12 12:04:19 pm	-0.2518	1157	0.24		1.00
mi — — jame — Andrii — Andrii — Andrii			Ç		(+1 S		1.00
1202003-35	UNK	02/22/12 12:06:17 pm	-0.2507	1170	0.37		1.00 1.00
Method Blank 2	MB	02/22/12 12:08:14 pm	-0.2502	1177	0.37		1.00 1.00
202003-36	UNK	02/22/12 12:10:12 pm	-0.2569	1088	0.31		1.00 1.00
202003-36dup RPD 0.00	DUP	02/22/12 12:12:11 pm	-0.2579	1076	0.43 D		1.00 1.00
1202003-37	UNK	02/22/12 12:14:09 pm	-0.2491	1191	0.39		1.00
202003-37apike % Recovery 99.95	MSK	02/22/12 12:16:08 pm	1.7500	27816	0.32		1.00
% Recovery 103.36	ccv	02/22/12 12:18:08 pm	2.0670	32043	0.51		1.00 1.00
ССВ	ссв	02/22/12 12:20:06 pm	-0.0051	4442	0.60		1.00 1.00
202003-38	UNK	02/22/12 12:22:04 pm	-0.2579	1076	0.27		1.00 1.00
202003-39	UNK	02/22/12 12:24:03 pm	-0.2586	1066	0.63		1.00 1.00
202003-40	UNK	02/22/12 12:26:03 pm	-0.2561	1099	0.39		1.00 1.00
202003-41	UNK	02/22/12 12:28:00 pm	-0.2559	1101	0.58		1.00 1.00
202003-42	UNK	02/22/12 12:29:57 pm	-0.2330	1407	0.48		1.00 1.00
202003-43	UNK	02/22/12 12:31:54 pm	-0.2352	1378	0.23		1.00 1.00
202003-44	UNK	02/22/12 12:33:52 pm	-0.2347	1384	0.48	2	1,00 1.00
202003-45	UNK	02/22/12 12:35:49 pm	-0.2359	1368	0.40		1.00 1.00
22/2012 1:26:33 PM Surfress 21	202-004  24 12-	Dimock 9th.wsz		ame Was a amiliately	ir mar a 1973il (° 1. d.)	mm X. Š	

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Sample Name	* g	Туре	Date/Time	Conc (ppb)	μAbs	%RSD Flags	Wt. ODF
Method Blank 3	Ishin	MB	02/22/12 12:37:47 pm	-0.2358	1369	0.23	1.00
1202003-46	WO	UNK	02/22/12 12:39:46 pm	-0.2328	1410	0.53	1.00
CCV % Recovery	104.37	CCV	02/22/12 12:41:45 pm	2.0870	32312	0.55	1.00 1.00
CCB		CCB	02/22/12 12:43:42 pm	-0.0092	4388	1.37	1.00 1.00
1202003-46dup	RPD 0.00	DUP	02/22/12 12:45:41 pm	-0.2340	1394	0.30 D	1.00
1202003-47	not This wo	UNK	02/22/12 12:47:40 pm	-0.2322	1417	0.33	1.00
1202003-47spike % Recovery	192.49	MSK	02/22/12 12:49:39 pm	1.8180	28719	0.30	1.00
Method Blank 1		MB	02/22/12 12:51:30pm	-0.2301	1446	0.13	1.00 1.00
QC Spike 3 & 1 % Recovery	101.38	SPK	02/22/12 12:53:38 pm	1.7980	28452	0.24	1.00
1202004-01		UNK	02/22/12 12:55:35 pm	-0.2287	1464	0.09	1.00 1.00
1202004-01dup	RPD 0.00	DUP	02/22/12 12:57:33 pm	-0.2305	1440	0.45 D	1.00
1202004-02		UNK	02/22/12 12:59:30 pm	-0.2291)	1459	0.24	1.00
1202004-02spike % Recovery	99.06	MSK	02/22/12 01:01:27 pm	1.7520	27846	0.40	1.00
1202004-03		UNK	02/22/12 01:03:25 pm	-0.2244	1522	0.27	1.00 1.00
CCV (V	= 3ppb 155.78 3,1160 1026	CCV	02/22/12 01:05:24 pm	3.1160	46008	0.63 Q	1.00
ССВ		сев	02/22/12 01:07:21 pm	-0.0090	4391	0.55	1:00 1:00
1202004-04		UNK	02/22/12 01:09:20 pm	-0.2273	1483	0.45	1.00 1.00
2/22/2012 1:26:33 PM	Sul Our 2/2	104		**************************************	,,,		Pa

2/22/2012 1:26:33 PM

shuffeed 2/24/12 Dimock 9th. wsz.

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Sample Name	Туре	Date/Time	Conc µAbs %RSD Flags	Wt V
1202004-06	UNK	02/22/12 01:11:18 pm	0.2249 1514 0.18	1.00 1.00
1202004-07	UNK	02/22/12 01:13:17 pm	-0.2239 1527 0.25	1.00
1202004-08	UNK	02/22/12 01:15:16 pm	-0.2255 1506 0.40	1.00 1.00
1202004-09	UNK	02/22/12 01:17:15 pm	-0.2266 1491 0.22	1.00 1.00
1202004-11	ÜNK	02/22/12 01:19:14 pm	-0.2271 1485 0.16	1.00 1.00
1202004-13	UNK	02/22/12 01:21:14 pm	0.2191 1592 0.18	1.00 1.00
CCV TV=3/18 3,0782 % Recovery W152.76 3,0782	102/2 CCV	02/22/12 01:23:13 pm	3.0550 45202 0.54 Q	1.00 1.00
CCB 7	ссв	02/22/12 01:25:10 pm	-0.0147 4315 0.69	1.00 1.00

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2/22/2012 1:26:33 PM

Dimock 9th.wsz

Par

# Analysis Parameters

# Instrument M-7500 Mercury Analyzer

#### Conditions

Gas flow (mL/min)	Sample Uptake (s)	Rinse (s)	Read delay (s)	Replicates (#)	Replicate time (s)	Pump speed (%)	Wavelength (nm)
135	40.00	70.00	40.00	4	3.50	100	253.65

#### Instrumental Zero

Zero before first sample: No

Zero periodically: Yes

Before each calibration.

#### **Baseline Correction**

#1 Start time (s)	#1 End time (s)	#2 Start time (s)	#2 End time (s)
10.00	17.00	06.00	100.00
10.00	3.6.00	95.00	100.00

# **Standby Mode**

Enabled: Yes

Standby Options: pump off, lamp off

#### Autodilution

Enabled: No
Condition:
Tube # range:

If no autodilution tubes remaining

# DRAFT

## Calibration

#### Settings

Algorithm	Through blank	Weighted fit	Cal. Type	Racalibration rate	Reslope rate	Resiope standard
Linear	No	No	Normal	0	0	N/A

#### Limits

Calibration	n slope	Res	lope	Coeff. of
Lower (%)	Upper (%)		Upper (%)	Determination
20	150	75	125	0.99500

Error action: Flag and continue

OC

GLP Override: Yes

OC Tests

Dinock WO 1202004

2/22/2012 1:26:33 PM

Dimock 9th.wsz

Pε

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Concentration

(ppb)

0.2000

Failure flag: Q

Error action for manually inserted QC: Flag and continue

ICB

Concentration

(ppb)

0.2000

Failure flag: Z

Error action for manually inserted QC: Flag and continue

CCV

Concentration

Low Limit

High Limit

(ppb)

%

2.0000

90.0000

110.0000

Failure flag: Q

Error action for manually inserted QC: Flag and continue

**ICV** 

Concentration (ppb)

Low Limit %

High Limit

%

2,0000

95,0000

105.0000

Failure flag: Q

Error action for manually inserted QC: Flag and continue

LCS

Concentration

Low Limit

High Limit

(ppb)

2.0000

90.0000

110.0000

Failure flag: L

Error action for manually inserted QC:

Flag and continue

DUP

Concentration

Low Limit

High Limit

RPD

(ppb)

(ppb)

(ppb)

5.0000

0.0000

5.0000

20.0000

Failure flag: D

Error action for manually inserted QC:

Flag and continue

SPK

Concentration (ppb)

Low Limit

High Limit

Min Rec

Sample µAbs

DRAFT

2,0000

% 85.0000

% 115.0000

0.0000

Failure flag: W

50.0000

Error action for manually inserted QC: Flag and continue

Denvek WO 1202004

2/22/2012 1:26:33 PM

Dimock 9th.wsz

Pa

NOW

Concentration Low Limit High Limit (ppb) % %

2.0000

70.0000

130.0000

Failure flag: N

Error action for manually inserted QC: Stop analysis

MB

Concentration (ppb) 0.0005

Failure flag: Z

Error action for manually inserted QC: Flag and continue

Dinock WO 1202004

DRAFT

Tube	Sample Name	Sample Type	Weight	Volume	Dilution
S:1	Calibration Blank	Standard	1.00	1.00	1.00
S:2	Standard #1 (.0.2)	Standard	1.00	1.00	1,00
S:3	Standard #2 (0.5)	Standard	1.00	1.00	1.00
S:4	Standard #3 (1.0)	Standard	1.00	1.00	1,00
S:5	Standard #4 (2.0)	Standard	1.00	1.00	1.00
5:6	Standard #5 (3.0)	Standard	1.00	1.00	1.00
S:7	Standard #6 (5.0)	Standard	1.00	1.00	1.00
S:5	ICV	ICV	1.00	1.00	1.00
S:1	tCB.	ICB	1.00	1.00	1.00
1:1	LCS	LCS	1.00	1.00	1.00
3:5	CCV	CCV	1.00	1.00	1.00
S:1	CCB	CCB	1.00	1.00	1,00
1:2	Method Blank 1	Method Blank	1.00	1.00	1.00
1:3	QC Spike 1	QC Spike	1.00	1.00	1.00
1:4	0.2 std as sample	Unknown	1.00	1.00	1.00
1:5	1202004-14	Unknown	1.00	1.00	1.00
1:6	1202004-14dup	Duplicate	1.00	1.00	1.00
1:7	1202004-15	Unknown	1,00	1.00	1.00
1:8	1202004-15spike	Matrix Spike	1.00	1.00	1.00
1:9	1202004-16	Unknown	1.00	1.00	1.00
1:10	1202004-17	Unknown	1.00	1.00	1.00
1:11	1202004-19	Unknown	1.00	1.00	1.00
S:5	CGV	CCV	1.00	1.00	1.00
S:1	CCB	CCB	1.00	1.00	1.00
1:12	1202004-20	Unknown	1.00	1.00	1,00
1:13	1202004-21	Unknown	1.00	1.00	C 11.00
1:14	1202004-22	Unknown	1.00	1.00V	1.00
1:15	1202004-23 1202004-24	Unknown Unknown	1.00	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1.00
1:16 1:17	Method Blank 2	Method Blank	1.00	1.00	1.00
1:18	1202004-25 \	Unknown	1.00	1.00	1.00
1:19	1202004-26	Unknown	1.00	1.00	1.00
1:20	1202004-26dup	Duplicate	1.00	1.00	1.00
1:21	1202004-27	Unknown	1.00	1.00	1.00
S:5	CCV	CCV	1.00	1.00	1.00
S:1	CCB	CCB	1.00	1.00	1.00
1:22	1202004-27spike	Matrix Splke	1.00	1.00	1.00
1:23	1202004-28	Unknown	1.00	1.00	1.00
1:24	1202004-29	Unknown	1.00	1.00	1.00
1:25	1202004-30	Unknown	1.00	1.00	1.00
1:26	1202004-31	Unknown	1.00	1.00	1.00
1:27	1202004-32	Unknown	1.00	1.00	1.00
1:28	1202004-33	Unknown	1.00	1.00	1.00
1:29	1202004-34	Unknown	1.00	1.00	1.00
1:30	Method Blank 3	Method Blank	1.00	1.00	1.00
1:31	QC Spike 2	QC Spike	1.00	1.00	1.00
S:5	CCV	CCV	1.00	1.00	1.00
S:1	CCB	CCB	1.00	1.00	1.00
1:32	1202004-35	Unknown	1.00	1.00	1.00
1:33	1202004-35dup	Duplicate	1.00	1.00	1.00
1:34	1202004-36	Unknown	1.00	1.00	1.00
1:35	1202004-36spike	Matrix Spike	1.00	1.00	1.00
1:36	1202004-37	Unknown	1.00	1.00	1.00
1:37	1202004-38	Unknown	1.00	1.00	1.00
1:38	1202004-39	Unknown	1.00	1.00	1.00
	and the same of th				

14-39 Unknown 1.00 1.00

Whencek his 12020014 Suffice 2/24/12

lupe	Sample Name	Sample Type	vveignt	Volume	Ultution
1:39	1202004-40	Unknown	1.00	1,00	1.00
1:40	1202004-41	Unknown	1.00	1.00	1.00
1:41	1202004-42	Unknown	1.00	1.00	1.00
S:5	OCV - dunged to 318 b	CCV	1.00	1.00	1.00
S:1	CCB "	CCB	1.00	1.00	1.00
1:42	1202004-43	Unknown	1.00	1.00	1.00
1:43	1202004-44	Unknown	1.00	1.00	1.00
S:5	cov-charge w3NB	CCV	1.00	1.00	1.00
S:1	CCB	CCB	1.00	1.00	1.00

Dimode WO 1202004 Sufreco 2/24/12

DAAFT

# CETAC Hg Analysis Report

Analyst: Mercury Analyzer

Worksheet file: C:\Program Files\QuickTrace\Worksheets\Dimock 10th.wsz

Date Started: 2/23/2012 12:18:55 PM

Comment:

## Results

Sample Name	Туре	Date/Time	Conc (ppb)	μAbs	%RSD Flags	Wt. ODF	Vol.
Calibration Blank	STD	02/24/12 10:18:07 am	0.0000	1860	1,86	1.00 1.00	1.6
Standard #1 (.0.2)	STD	02/24/12 10:20:04 am	0.2000	4716	0.81	1.00 1.00	1.0
Standard #2 (0.5)	STD	02/24/12 10:22:02 am	0.5000	9019	1.14	1.00 1.00	1,0
Standard #3 (1.0)	STD	02/24/12 10:24:01 am	1.0000	16251	0.29	1.00 1.00	1.6
Standard #4 (2.0)	STD	02/24/12 10:26:01 am	2.0000	30706	1.19	1.00 1.00	1.6
Standard #5 (3.0)	STD	02/24/12 10:28:00 am	3.0000	48289	170.89	1.00 1.00	1.0
Standard #6 (5.0)	STO	02/24/12 10:30:01 am	5.0000	72537	1.08	1.00 1.00	1,(



Equation:

A = 2037.880 + 14197.570C

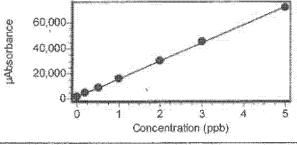
R2:

0.99979\_\_\_

SEE:

404.7841

Flags:



ICV	% Recovery	100.62	icv	02/24/12 10:32:00 am	2.0120	30609	0.67	1.00 1.00	1.6
ica	u sakalikka sakkoh sikiki sak sac		ICE	02/24/12:10:33:57 am	-0.0111	- 1880	0.83	1.00 1.00	1.(
LCS	% Recovery	95.88	LCS	02/24/12 10:35:54 am	1.9180	29264	2.63	1.00	1.(

2/24/2012 12:29:16 PM

Junick WO 1202004 3:16 PM Sufers 2/24/12

Dimock 10th.wsz

Page

Sample Name		Туре	Date/Time	Conc (ppb)	μAbs	%RSD Flags	Wt. Vol
CCV % Recovery	100.58	CCV	02/24/12 10:37:54 am	2.0120	30597	0.90	1.00 1. 1.00
CCB		CCB	02/24/12 10:39:51 am	-0.0089	, 1911 ,	0.21	1.00 1 1.00
Method Blank 1	:	MB	02/24/12 10:41:48 am	(0.0747)	977	0.27	1.00 1. 1.00
QC Spike 1 % Recovery	96.04	SPK	02/24/12 10:43:46 am	1.8460	28248	0.51	1.00 1. 1.00
0.2 std as sample	TV= 2 - 89%	UNK	02/24/12 10:45:44 am	0.1976	4843	0.95	1.00 1. 1.00
1202004-14		UNK	02/24/12 10:47:42 am	(0.0729)	1003	0.19	1.00 1. 1.00
1202004-14dup	RPO 0.00	DUP	02/24/12 10:49:40 am	(0.0750)	973	0.44 D	1.00 1. 1.00
1202004-15		UNK	02/24/12 10:51:39 am	(-0.0745	980	0:12	1.00 1.
1202004-15spike % Recovery	96.75	MSK	02/24/12 10:53:38 am	(1.8619)	28453	PAF	( 1.00 1.
1202004-16		UNK	02/24/12 10:55:37 am	(-0.0761)	957	0.19	1.00 1. 1.00
1202004-17	And Apr / 90008 90000 TO year 100000000 to the second of t	UNK	02/24/12 10:57:37 am	(0.0713)	1026	0.30	1.00 1. 1.00
1202004-19		UNK	02/24/12 10:59:37 am	(-0.0734)	995	0.27	1.00 1. 1.90
CCV % Recovery	101.16	CCV	02/24/12 11:01:36 am	2.0230	30762	0.43	1.00 1.
ССВ		CCB	02/24/12 11:03:33 am	-0.0099	1898	1.40	1.00 1.
1202004-20	Anna to Vac i di Constanti di Co	UNK	02/24/12 11:05:33 am	(-0.0729)	1003	0.22	1.00 1. 1.00
1202004-21	And the state of t	UNK	02/24/12 11:07:30 am	(-0.0729)	1003	0.43	1.00 1. 1.00
1202004-22		UNK	02/24/12 11:09:27 am	0.0713	) 1026	0.34	1.00 1. 1.00
1202004-22 Llen 2/24/2012 12:29:16 PI	rock WO 1202009 1 Shufuco 2/2		02/24/12 11:09:27 am Dimock 10th.wsz	(0.0713	) 1026	0.34	

Sample Name	Туре	Date/Time	Conc µAbs	%RSD Flags	Wt.	Vol.
1202004-23	ÜNK	02/24/12 11:11:24 am	-0.0734 996	0.70	1.00 1.00	1.0
1202004-24	UNK	02/24/12 11:13:22 am	0.0733 998	0.64	1.00 1.00	1,0
Method Blank 2	MB	02/24/12 11:15:19 am	0.0738 990	0.42	1.00 1.00	1.0
1202004-25	UNK	02/24/12 11:17:18 am	0.0729 1002	0.39	1.00 1.00	1.0
1202004-26	UNK	02/24/12 11:19:16 am	-0.0726 1007	0.60	1.00 1.00	1.0
1202004-26dup RPO 0.00	DUP	02/24/12 11:21:15 am	0.0743 982	0.35 D	1,00 1.00	1.0
1202004-27	UNK	02/24/12 11:23:14 am	-0.0734 996	0.26	1.00 1.00	1.0
CCV % Recovery 100.20	CCV	02/24/12 11:25:13 am	2.0040 30489	0.42	1.00 1.00	1.G
ССВ	CCB	02/24/12 11:27:10 am	-0.0082 1922	3.33 CAL	1.00	1.C
1202004-27spike % Recovery 91.96	MSK	02/24/12 11:29:09 am	(1.8310) 28033	0.51	1.00	1.0
1202004-28	UNK	02/24/12 11:31:09 am	0.0714 1024	0.32	1.00 1.00	1.0
1202004-29	UNK	02/24/12 11:33:09 am	0.0719 1017	0.38	1.00 1.00	1.0
1202004-30	UNK	02/24/12 11:35:05 am	0.0716 1021	0.55	1.00 1.00	1.0
1202004-31	UNK	02/24/12 11:37:02 am	(-0.0722) 1013	0.42	1.00 1.00	1.0
1202004-32	UNK	02/24/12 11:39:00 am	(-0.0727) 1008	0.41	1.00 1.00	1.0
1202004-33	UNK	02/24/12 11:40:57 am	(0.0721) 1014	0.41	1.00 1.00	1.0
1202004-34	UNK	02/24/12 11:42:55 am	0.0716 1021	0.74	1.00 1.00	1.0
Wintock WO 1202004 2/24/2012 12:29:16 PM Suefice 2/24/12		Dimock 10th.wsz			Į?	'age

Sample Name	Туре	Date/Time	Conc µ/	\bs	%RSD	Flags	Wt.	Vol.
Method Blank 3	МВ	02/24/12 11:44:53 am	(0.0716)	1022	0.41		1.00 1.00	1.6
QC Spike 2 % Recovery 94.80	SPK	02/24/12 11:46:51 am	1.8240 2	27941	0.33		1.00 1.00	1.0
CCV % Recovery 101.25	ccv	02/24/12 11:48:51 am	2.0250 3	0789	0.26		1.00 1.00	1.0
ССВ	CCB	02/24/12 11:50:48 am	-0.0104	1890	0.42		1.00 1.00	1.0
1202004-35	ÜNK	02/24/12 11:52:46 am	-0.0708	1033	0.36		1.00	1.0
1202004-35dup RPD 0.00	DUP	02/24/12 11:54:45 am	(-0.0528)	1288	0.21		1.00 1.00	1.0
1202004-36	UNK	02/24/12 11:56:44 am	0.0719	1022	0.39		1.00 1.00	1.0
1202004-36spike % Recovery 96.18	MSK	02/24/12 11:58:44 am	1.8520 2	8333	0.39		1.00 1.00	1.0
1202004-37	UNK	02/24/12 12:00:44 pm	-0.0690	1057	R916	LAPI	1.00 1.00	1.0
1202004-38	UNK.	02/24/12 12:02:41 pm	-0.0398	1473	0.45	CONTRACTOR STATEMENT OF THE STATEMENT OF	1.00 1.00	1.0
1202004-39	UNK	02/24/12 12:04:38 pm	0.0417	1445	0.53	- All Societies English	1.00 1.00	1.(
1202004-40	UNK	02/24/12 12:06:35 pm	(-0.0398)	1472	0.28		1.00	1.0
1202004-41	UNK	02/24/12 12:08:33 pm	0.0464	1379	0.31		1.00	1.0
1202004-42	UNK	02/24/12 12:10:31 pm	(-0.0432)	1425	0.47		1.00	1.0
CCV TV=3yb 3,0050 % Recovery 150.25 = 1006	ccv	02/24/12 12:12:30 pm	3.0050 4	4701	0.48 (		1.00 1.00	1.0
CCB	CCB	02/24/12 12:14:27 pm	-0.0109	1884	.0.18		1.00 1.00	1.0
1202004-43	UNK	02/24/12 12:16:25 pm	(-0.0430)	1427	0.29		1.00 1.00	1.(
Named WO 1202004 2124/2012 12:29:16 PM Surpris 2/34,	//2	Dimock 10th.wsz			essential de la companya de la comp	manusakkitikidetaki idabakitikitiki idabakitikitiki idabakitiki idabakitiki idabakitiki idabakitiki idabakitik	Þ	'age
ramanasanin manananananananananananananananananana		per- and the A. M. Lit. of the State Late (1994).		engayakit/initeleted				dilinarios.

Sample Name	Туре	Date/Time	Conc (ppb)	μAbs	%RSD Flags	Wt.	Vol.
1202004-44	UNK	02/24/12 12:18:24 pm	-0.0433	1423	0.28	1.00 1.00	15
CCV TV-3 2.9966 % Recovery 149.78 3 - 1007	ccv	02/24/12 12:20:23 pm	2.9960	44569	0.70 Q	1,00 1.00	1,8
ССВ	CCB	02/24/12 12:22:20 pm	-0.0095	1902	0.49	1.00	1,3
Single: Test blank	UNK	02/24/12 12:24:49 pm	-0.0725	1009	0.39	1.00 1.00	12

Dimock W0 1202004 Shee Greco 2/24/12

DRAFT

# Analysis Parameters

# Instrument M-7500 Mercury Analyzer

#### Conditions

Gas flow (mL/min)	Sample Uptake (s)	Rinse (s)	Read delay (s)	Replicates (#)	Replicate time (s)	Pump speed (%)	Wavelength (nm)
135	40.00	70.00	40.00	4	3.50	100	253.65

#### Instrumental Zero

Zero before first sample:

Zero periodically:

Yes

Before each calibration.

#### **Baseline Correction**

#1 Start time (s)	#1 End time (s)	#2 Start time (s)	#2 End time (s)
10.00	17.00	95.00	100.00

## Standby Mode

Enabled: Yes

Standby Options: pump off, lamp off

#### Autodilution

Enabled: No Condition: Tube # range:

If no autodilution tubes remaining

DRAFT

## Calibration

### Settings

	Through blank	. <del></del>	Cal. Type	Racalibration rate		
Linear	No	No	Normal	0	0	N/A

## Limits

Calibratio	n slope	Res	Reslope			
Lower (%)	Upper (%)	Lower (%)	Upper (%)	Determination		
20	150	75	125	0.99500		

Dinsel WO 1202004

Error action: Flag and continue

QC

GLP Override: Yes

QC Tests

2/24/2012 12:29:16 PM

Dimock 10th.wsz

Page

CCB

Concentration

(ppb)

0.2000

Failure flag: Q

Error action for manually inserted QC: Flag and continue

ICB

Concentration

(ppb)

0.2000

Failure flag: Z

Error action for manually inserted QC: Flag and continue

CCV

Concentration

Low Limit

High Limit

(ppb)

%

%

2.0000

90.0000

110.0000

Failure flag: Q

Error action for manually inserted QC: Flag and continue

**ICV** 

Concentration

Low Limit

High Limit

(ppb)

%

0/0

2.0000

95.0000

105.0000

Failure flag: Q

Error action for manually inserted QC: Flag and continue

LCS

Concentration

Low Limit %

High Limit

(ppb)

%

2.0000

90.0000

110.0000

Failure flag: L

Error action for manually inserted QC: Flag and continue

DUP

Concentration

Low Limit

High Limit

RPD

(ppb) 5.0000

(ppb) 0.0000

(ppb) 5.0000

20.0000

Failure flag: D

Error action for manually inserted QC: Flag and continue

SPK

Concentration

Low Limit

High Limit %

Min Rec

Sample µAbs

DRAFT

(ppb) 2,0000

96 85.0000

115.0000

0.0000

Error action for manually inserted QC: Flag and continue

50.0000

Failure flag: W

Dunvek WO 1202004

2/24/2012 12:29:16 PM

Dimock 10th.wsz

Page

MSK

Concentration

Low Limit %

High Limit

(ppb) 2.0000

70.0000

0/0 130.0000

Failure flag: N

Error action for manually inserted QC: Stop analysis

MB

Concentration

(ppb)

0.0005

Failure flag: Z

Error action for manually inserted QC: Flag and continue

Dinock WO 1202004

DRAFT

nd\*\*

**BB21504** 

Account#: 2012T03N303DC6A3TARS00

Location: EPA #3 Shelf 8D

bch\_mercury.rpt

Project:

DAS R33907

Work Order No: Site Name:

1202004

**Dimock Residential Groundwater** 

Analysis: Matrix:

Total Mercury by 245.1

Water

Lumode 9th

Client:

Method/SOP: EPA 245.1/R3QA131

**OSWER** - Emergency Response

### Comments from WO:

EPA OASQ	A MERCURY SAMPLE, REAGENT/STANDARD, PREPARAT	TION LOG PNB186		
Analyst: Suefrece	NOTE: Solid samples are dried and prepared according to SOP 155 unless otherwise noted.	Certificate of Analysis Log # SNB14		
Sample Prep Date(s):	5 ppb Standard and BS/MS spike wkg stock: 1ppm, date made: 1/2	Pipets Log# SNB16		
2/21/12	Mfr: Ken Eyr Barcode: 12412 Exp. date: 2/11 (i ul of 1000ppm added to 100 ml DI water)	Balance Log# SNB14		
SOP R3-QA131	Second Source wkg stock (SCV): 1ppm date made:	DI Water Resistivity >18 (MΩcm) (Y) N		
	Mfr: Sper 16-87 Barcode: 12738 Exp. date:	Pipets Calibrated? Y N		
	(1 μl of 1000ppm added to 100 ml DI water) 4/15/2			
Hotblock / Waterbath		Reagent purity correct (Y/N		
Time/Temp start: 11456 916 °C	SRM ID: NA Barcode:	BS and MS spike units =   µl		
Time/Temp stop: /// °C				
Dilution Water: volume 200 mls	5ppb Standard: volume 100 mls (not digested)	Second Source (SCV): volume 100 mls		
(not digested) blank standard	Vol. of ippm soln added 500 µl	Vol of 1ppm soln added 700 ul (not digested)		
Date: 2/22/12	0.2, 0.5, 1.0, 2.0, 3.0, 5.0 working standards - (not digested)	Weight Volume		
HNO; Vendor:	SO2 Vendor: HCl Vendor: Barcode: 12728	KMnO. Vendor: VWR/130H		
Barcode: 11156 E	sarcode: 11805 10% rinse Date/Init: 4/9	125g Barcode: 12665 + 12681		
K2S2O Vendor Mallinkroat	SnCl. Vendor: Agua of lulers NaCl Vendor: Jox Pure	NH-OHHCl Vendor:		
Barcode: 5866 Date Init: 2/6/12 55	Barcode: Date/Init: Barcode: Date/Init:	Barcode: Date/Init: 2/15/1255		

DIM0200100

BB21504

bch\_mercury.rpt

LabNumber	Cont ID	Sample Type	pН	Initial (mL)	Final (mL)	Spike1	Spikel Amount µl	Spike2	Spike2 Amount µl	SourceID	ExtractionComments	Observations
1202004-01	2/24/12 A B	SAM		25	25						71/71 Drinking Water (Total/Dissolved)	
1202004-02	A	SAM		25	25						71/71 Drinking Water (Total/Dissolved)	
1202004-03	12/20/12 D	SAM		25	25					y alimb	71/71 Drinking Water (Total/Dissolved)	
1202004-04	A	SAM		25	25	:	1			ş <u> </u>	71/71 Drinking Water (Total/Dissolved)	
1202004-06	424 12 D	SAM		25	25		1				71/71 Drinking Water (Total/Dissolved)	
1202004-07	A	SAM		25	25		1	Z,			71/71 Drinking Water (Total/Dissolved)	
1202004-08	少	SAM	: :::	25	25						71/71 Drinking Water (Total/Dissolved)	
1202004-09	A	SAM		25	25						71/71 Drinking Water (Total/Dissolved)	
1202004-11	1995	SAM		25	25		1				71/71 Drinking Water (Total/Dissolved)	
1202004-13	2/2/12	SAM		25	25						71/71 Drinking Water (Total/Dissolved)  USColored — S(	24/12
BB21504-BLK1				25	25							
BB21504-BS1				25	25	0700077	50			-		
BB21504-DUP1				25	25					1202004-01		
BB21504-MS1				25	25	0700077	50			1202004-02		

BB22202

bch\_mercury.rpt

Project:

DAS R33907

Work Order No:

1202004

Site Name:

**Dimock Residential Groundwater** 

Analysis:

Total Mercury by 245.1

Matrix:

Water

Location: EPA #3 Shelf 1C
EPA #3 Shelf 1D
Client: EPA #3 Shelf 1D
Client: EPA #3 Shelf 1D

Account#: 2012T03N303DC6A3TARS0(

Method/SOP: EPA 245.1/R3QA131

#### Comments from WO:

		REAGENT/STANDARD, PREPARA			
Analyst: Sue free	NOTE: Solid samples are dri unless otherwise noted.	ed and prepared according to SOP 155	Certificate of Analysis Log #   SNB14		
Sample Prep Date(s):	5 ppb Standard and BS/MS sp	pike wkg stock: lppm, date made:	Pipets Log# SNB16		
2/23/12	Mfr: En Explosing Barco	de: 12612 Exp. date: 12/11	Balance Log∓ SNB14		
	(1 µl of 1000ppm added to 10	00 ml DI water)			
SOP R3-QA131	Second Source wkg stock (St	CV): 1ppm date made: "\$\frac{1}{2}\tag{2}	DI Water Resistivity >18 (MΩcm) (Y) N		
	Mfr. Leas 16-81	Barcode: 12738 Exp. date:	Pipets Calibrated? YN		
	(1 µl of 1000ppm added to 10	00 ml DI water) 4/17/12	<i>A</i>		
Hotblock Waterbath			Reagent purity correct (Y) N		
Time Temp start 10:25 45 C	SRM ID: NA	Barcode:	BS and MS spike units =   µl		
Time Temp stop: 12/25 94.9 °C	a formina sincia vive estimunum mana misteratik nyti, a sincia a manipun menana asati ana a				
Dilution Water: volume 200 mls	5ppb Standard: volume	100 mls (not digested)	Second Source (SCV): volume 102 mls		
(not digested) blank standard	Vol. of lppm soln added	302 M	Vol of 1ppm soln added 200 µl (not digested		
Date: 2/24/12	0.2, 0.5, 1.0, 2.0, 3.0, 5.0 wor	king standards - (not digested)	Weight Volume		
	H2SO, Vendor: Juster	HCl Vendor: Barcode: 12129	KMnO, Vendor;		
Barcode: 11156 I	Barcode: 11805	10 % rinse Date/Init:	Barcode: 12665 4 12666		
K2S2O Vendor: Wallinkroat	SnCl2 Vendor: Squa Islu	Lions NaCl Vendor: The Parc	NH2OHHCI Vendor:		
Barcode: Date Init: 2/24/13 Sr	Barcode: Date/Init:	Barcode: Date/Init:	Barcode: Date/Init: 12668 2/15/12 85		

DIM0200100

	****						Di	mock	10 4		BB22202 bch_n	nercury.rpt
LabNumber	Cont ID	Sample Type	рН	Initial (mL)	Final (mL)	Spike1	Spikel Amount µl	Spike2	Spike2 Amount µl	SourceID	ExtractionComments	Observations
1202004-14	A	SAM		25	25						71/71 Drinking Water (Total/Dissolved)	
1202004-15 %	W/D	SAM		25	25					7,41	71/71 Drinking Water (Total/Dissolved)	
1202004-16	A	SAM		25	25						71/71 Drinking Water (Total/Dissolved)	
1202004-17 🕉	2 September	SAM		25	25						71/71 Drinking Water (Total/Dissolved)	recolored 4m
1202004-19	A	SAM		25	25					, , , , , , , , , , , , , , , , , , ,	71/71 Drinking Water (Total/Dissolved)	
1202004-20	A	SAM		25	25						71/71 Drinking Water (Total/Dissolved)	
1202004-21 5	1/29/1	SAM		25	25						71/71 Drinking Water (Total/Dissolved)	***************************************
1202004-22 48	Jay AT	SAM		25	25		2				71/71 Drinking Water (Total/Dissolved)	
1202004-23 %	W/Z D	SAM		25	25			6	2		71/71 Drinking Water (Total/Dissolved)	* -
1202004-24 %	WAR D	SAM	121	25	25					<b>&gt;</b> :	71/71 Drinking Water (Total/Dissolved)	
1202004-25 %	HALL D	SAM	10	25	25					· · · · · · · · · · · · · · · · · · ·	71/71 Drinking Water (Total/Dissolved)	
1202004-26 58	HAMP	SAM	1/4	25	25		7-1				71/71 Drinking Water (Total/Dissolved)	
1202004-27 %	W.D	SAM	1	25	25						71/71 Drinking Water (Total/Dissolved)	
1202004-28	My D	SAM	A	25	25						71/71 Drinking Water (Total/Dissolved)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
1202004-29	W TO THE D	SAM	1	25	25					·	71/71 Drinking Water (Total/Dissolved)	
1202004-30	MY D	SAM		25	25						71/71 Drinking Water (Total/Dissolved)	
1202004-31	N APPLY D	SAM		25	25			1			71/71 Drinking Water (Total/Dissolved)	
1202004-32	VIN TO	SAM		25	25						71/71 Drinking Water (Total/Dissolved)	a de la composition della comp
1202004-33	A	SAM		25	25						71/71 Drinking Water (Total/Dissolved)	
1202004-34	A	SAM		25	25						71/71 Drinking Water (Total/Dissolved)	
1202004-35	A	SAM		25	25						71/71 Drinking Water (Total/Dissolved)	

DIM0200100

			-		WO# 120	*		Dei	woek	16 44	BB22202 bch_mercury.rpt
1202004-36	A	SAM		25	25				=		71/71 Drinking Water (Total/Dissolved)
1202004-37	A	SAM		25	25				_		71/71 Drinking Water (Total/Dissolved)
1202004-38	A	SAM		25	25				-	. A	71/71 Drinking Water (Total/Dissolved)
1202004-39	A	SAM	()	25	25					uni di	71/71 Drinking Water (Total/Dissolved)
1202004-40	A	SAM	100	25	25	.:			=-		71/71 Drinking Water (Total/Dissolved)
1202004-41	Α	SAM	il.	25	25		-	:			71/71 Drinking Water (Total/Dissolved)
1202004-42	A	SAM	12	25	25						71/71 Drinking Water (Total/Dissolved)
1202004-43	A	SAM		25	25		1			:	71/71 Drinking Water (Total/Dissolved)
1202004-44	A	SAM	À	25	25	in the second					71/71 Drinking Water (Total/Dissolved)
BB22202-BLK1				25	25			天		4	
BB22202-BLK2				25	25		-	_			
BB22202-BLK3				25	25		-			: <del>-</del>	
BB22202-BS1				25	25	0700077	50			.=	
BB22202-BS2				25	25	0700077	50			-	
BB22202-DUP1				25	25					1202004-14	
BB22202-DUP2				25	25	-	-			1202004-26	
BB22202-DUP3				25	25					1202004-35	
BB22202-MS1				25	25	0700077	50			1202004-15	
BB22202-MS2				25	25	0700077	50			1202004-27	
BB22202-MS3				25	25	0700077	50			1202004-36	

#### Printed: 2/13/2012 11:06:39AM

#### 1202004

## U.S. EPA Region 3 - FOR INTERNAL USE ONLY

Client:

**OSWER** - Emergency Response

Project:

**DAS R33907** 

Final Report Due: 03/03/2012

Project Manager: Cindy Caporale

Site Name: Dimock Residential Groundwater

Acet#: 2012T03N303DC6A3TARS00

Report To:

Client Project Manager: Rich Fetzer

Email:

fetzer.richard@epa.gov

Phone:

(610) 861-2087

Fax:

**Project/WO Comments** 

Unvalidated data = 7 days (refer to

Special Instructions)

Validated data = 21 days

Shelf

EPA #3 Shelf 1B

EPA #3 Shelf 1C

EPA #3 Shelf 1D

EPA #3 Shelf 2C

EPA #3 Shelf 2D

EPA #3 Shelf 7C

EPA #3 Shelf 8D

EPA #5 VOA

Received By:

Faroque Khan

Date Received:

02/10/12 11:20

Temperature Samples Received at 1°C

Custody Seals Containers Intact

Yes Yes

COC/Labels Agree Yes Preservation Confirmed Yes

Received On Ice

Radiation Checked Yes

Yes

Lab\Report Matrix

Sample Comments

Lab\Report Matrix

**Date Sampled** 

Expires:

**Date Sampled** 

Expires:

**ESAT INFO ONLY** 

Received

Received

Preliminary Report Due Date

ESAT Due Date

Complete

Not Complete

Need TDF

TDF#

Sample Logged In: 02/10/12 11:57

Sample Received: 02/10/12 11:20

Sample Logged In: 02/10/12 11:57

Sample Received: 02/10/12 11:20

Sample Logged In: 02/10/12 11:57

Sample#

1202004-01

Sample Name: HW48

Sample Type: SAM

Total Mercury by 245.1

1202004-02 Sample# Sample Name: HW48-F

Sample Type: SAM

Total Mercury by 245.1

Sample# Sample Name HW48z

Total Mercury by 245.1

Sample Type SAM

1202004-03

Sample Comments:

Lab\Report Matrix

Expires:

Date Sampled

02/08/12 16:06

Water\Drinking Water

Water\Drinking Water

Water\Drinking Water

02/08/12 16:06

Analysis Comments: 71/71 Drinking Water (Total/Dissolved)

02/08/12 16:06

Analysis Comments: 71/71 Drinking Water (Total/Dissolved)

03/07/12 16:06

03/07/12 16:06

03/07/12 16:06

Sample Received: 02/10/12 11:20

Analysis Comments: 71/71 Drinking Water (Total/Dissolved)

Sample Comments:

Received

Sample# Sample Name: Sample Type:		Lab\Report Matrix Date Sampled	Water\Drinking Water 02/08/12 16:06	Sample Logged In: Sample Received:	02/10/12 11:57 02/10/12 11:20
Total Mercury by	/ 245.T	Expires: 03/07/12 Analysis Comments Sample Comments		Received	
Sample# Sample Name: Sample Type:		Lab\Report Matrix Date Sampled	Water\Drinking Water 02/09/12 10:53	Sample Logged In: Sample Received:	02/10/12 11:57 02/10/12 11:20
Total Mercury by	245.1	Expires: 03/08/12 Analysis Comments: Sample Comments:		Received	
Sample# Sample Name: Sample Type:		Lab\Report Matrix Date Sampled	Water\Drinking Water 02/09/12 10:53	Sample Logged In: Sample Received:	02/10/12 11:57 02/10/12 11:20
Total Mercury by		Expires: 03/08/12 Analysis Comments Sample Comments		Received	
Sample# Sample Name: Sample Type:		Lab\Report Matrix Date Sampled	Water\Drinking Water 02/09/12 10:53	Sample Logged In: Sample Received:	02/10/12 11:57 02/10/12 11:20
Total Mercury by		Expires: 03/08/12 Analysis Comments: Sample Comments		Received	
Sample# Sample Name: Sample Type:		Lab\Report Matrix Date Sampled	Water\Drinking Water 02/09/12 10:53	Sample Logged In: Sample Received:	
Total Mercury by		Expires: 03/08/12 Analysis Comments: Sample Comments		Received	
Sample# Sample Name: Sample Type:		Lab\Report Matrix Date Sampled	Water\Drinking Water 02/08/12 15:39	Sample Logged In: Sample Received:	02/10/12 11:57 02/10/12 11:20
Total Mercury by		Expires: 03/07/12 Analysis Comments: Sample Comments		Received	
Sample# Sample Name: Sample Type:		Lab\Report Matrix Date Sampled	Water\Drinking Water 02/09/12 10:42	Sample Logged In: Sample Received:	02/10/12 11:57 02/10/12 11:20
Total Mercury by		Expires: 03/08/12 Analysis Comments: Sample Comments:		Received	
Sample# Sample Name: Sample Type:		Lab\Report Matrix Date Sampled	Water\Drinking Water 02/09/12 10:42	Sample Logged In: Sample Received:	02/10/12 11:57 02/10/12 11:20
Total Mercury by		Expires: 03/08/12 Analysis Comments Sample Comments		Received	

Page 2 of 6

Sample# 1202004-15 Sample Name: HW23 Sample Type: SAM	Lab\Report Matrix Water\Drinking Water  Date Sampled 02/08/12 15:42	Sample Logged In: 02/10/12 11:57 Sample Received: 02/10/12 11:20
Total Mercury by 245.1	Expires: 03/07/12 15:42 Analysis Comments: 71/71 Drinking Water (Total/Dissolved) Sample Comments:	Received
Sample# 1202004-16 Sample Name: HW23-F Sample Type: SAM	Lab\Report Matrix Water\Drinking Water  Date Sampled 02/08/12 15:42	Sample Logged In: 02/10/12 11:57 Sample Received: 02/10/12 11:20
Total Mercury by 245.1	Expires: 03/07/12 15:42  Analysis Comments 71/71 Drinking Water (Total/Dissolved)  Sample Comments	Received
Sample# 1202004-17 Sample Name: HW22-P Sample Type: SAM	Lab\Report Matrix Water\Drinking Water  Date Sampled 02/09/12 10:50	Sample Logged In: 02/10/12 11:57 Sample Received: 02/10/12 11:20
Total Mercury by 245.1	Expires: 03/08/12 10:50 Analysis Comments: 71/71 Drinking Water (Total/Dissolved) Sample Comments:	Received
Sample# 1202004-19 Sample Name: HW23-PF Sample Type: SAM	Lab\Report Matrix Water\Drinking Water  Date Sampled 02/08/12 15:39	Sample Logged In: 02/10/12 11:57 Sample Received: 02/10/12 11:20
Total Mercury by 245.1	Expires: 03/07/12 15:39  Analysis Comments: 71/71 Drinking Water (Total/Dissolved)  Sample Comments:	Received
Sample# 1202004-20 Sample Name: HW22-PF Sample Type: SAM	Lab\Report Matrix Water\Drinking Water  Date Sampled 02/09/12 10:50	Sample Logged In: 02/10/12 11:57 Sample Received: 02/10/12 11:20
Total Mercury by 245.1	Expires: 03/08/12 10:50  Analysis Comments: 71/71 Drinking Water (Total/Dissolved)  Sample Comments	Received
Sample# 1202004-21 Sample Name: HW36n Sample Type: SAM	Lab\Report Matrix Water\Drinking Water  Date Sampled 02/10/12 10:53	Sample Logged In: 02/11/12 14:15 Sample Received: 02/11/12 10:04
Total Mercury by 245.1	Expires: 03/09/12 10:53  Analysis Comments: 71/71 Drinking Water (Total/Dissolved)  Sample Comments:	Received
Sample# 1202004-22 Sample Name: HW49 Sample Type: SAM	Lab\Report Matrix Water\Drinking Water  Date Sampled 02/09/12 14:11	Sample Logged In: 02/11/12 14:15 Sample Received: 02/11/12 10:04
Total Mercury by 245.1	Expires: 03/08/12 14:11  Analysis Comments: 71/71 Drinking Water (Total/Dissolved)  Sample Comments: Glycol vial broken in cooler	Received
Sample# 1202004-23 Sample Name: HW16-P Sample Type: SAM	Lab\Report Matrix Water\Drinking Water  Date Sampled 02/10/12 11:37	Sample Logged In: 02/11/12 14:15 Sample Received: 02/11/12 10:04
Total Mercury by 245.1	Expires: 03/09/12 11:37  Analysis Comments: 71/71 Drinking Water (Total/Dissolved)  Sample Comments:	Received

Sample# 1202004-24 Sample Name: HW54-P Sample Type: SAM	Lab\Report Matrix Water\Drinking Water  Date Sampled 02/10/12 14:30	Sample Logged In: 02/11/12 14:15 Sample Received: 02/11/12 10:04
Total Mercury by 245.1	Expires: 03/09/12 14:30  Analysis Comments 71/71 Drinking Water (Total/Dissolved)  Sample Comments	Received
Sample# 1202004-25 Sample Name: FB14 Sample Type: SAM	Lab\Report Matrix Water\Water  Date Sampled 02/09/12 13:36	Sample Logged In: 02/11/12 14:15 Sample Received: 02/11/12 10:04
Total Mercury by 245.1	Expires: 03/08/12 13:36  Analysis Comments: 71/71 Drinking Water (Total/Dissolved)  Sample Comments	Received
Sample# 1202004-26 Sample Name: HW16z Sample Type: SAM	Lab\Report Matrix Water\Drinking Water  Date Sampled 02/10/12 11:22	Sample Logged In: 02/11/12 14:15 Sample Received: 02/11/12 10:04
Total Mercury by 245.1	Expires: 03/09/12 11:22  Analysis Comments: 71/71 Drinking Water (Total/Dissolved)  Sample Comments:	Received
Sample# 1202004-27 Sample Name: HW16 Sample Type: SAM	Lab\Report Matrix Water\Drinking Water  Date Sampled 02/10/12 11:21	Sample Logged In: 02/11/12 14:15 Sample Received: 02/11/12 10:04
Total Mercury by 245.1	Expires: 03/09/12 11:21  Analysis Comments: 71/71 Drinking Water (Total/Dissolved)  Sample Comments:	Received
Sample# 1202004-28 Sample Name: HW44 Sample Type: SAM	Lab\Report Matrix Water\Drinking Water  Date Sampled 02/09/12 14:49	Sample Logged In: 02/11/12 14:15 Sample Received: 02/11/12 10:04
Total Mercury by 245.1	Expires: 03/08/12 14:49  Analysis Comments: 71/71 Drinking Water (Total/Dissolved)  Sample Comments: OC for VOCs AND SVOCs	Received
Sample# 1202004-29 Sample Name: HW49-P Sample Type: SAM	Lab\Report Matrix Water\Drinking Water  Date Sampled 02/09/12 14:26	Sample Logged In: 02/11/12 14:15 Sample Received: 02/11/12 10:04
Total Mercury by 245.1	Expires: 03/08/12 14:26  Analysis Comments: 71/71 Drinking Water (Total/Dissolved)  Sample Comments:	Received
Sample# 1202004-30 Sample Name: HW36n-P Sample Type: SAM	Lab\Report Matrix Water\Drinking Water  Date Sampled 02/10/12 11:02	Sample Logged In: 02/11/12 14:15 Sample Received: 02/11/12 10:04
Total Mercury by 245.1	Expires: 03/09/12 11:02  Analysis Comments: 71/71 Drinking Water (Total/Dissolved)  Sample Comments: OC for VOCs	Received
Sample# 1202004-31 Sample Name: FB15 Sample Type: SAM	Lab\Report Matrix Water\Water  Date Sampled 02/10/12 11:21	Sample Logged In: 02/11/12 14:15 Sample Received: 02/11/12 10:04
Total Mercury by 245.1	Expires: 03/09/12 11:21  Analysis Comments: 71/71 Drinking Water (Total/Dissolved)  Sample Comments:	Received

Sample# Sample Name: Sample Type:			Water\Drinking Water 02/10/12 14:08	Sample Logged In: Sample Received:	02/11/12 14:15 02/11/12 10:04
Total Mercury by	y 245.1.	Expires: 03/09/12 l Analysis Comments Sample Comments	4:08 71/71 Drinking Water (Total/Dissolved)	Received	
Sample# Sample Name Sample Type:		a practical property of the pr	Water\Drinking Water 02/10/12 10:53	Sample Logged In: Sample Received:	
Total Mercury by	y 245.1	Expires: 03/09/12 1 Analysis Comments: Sample Comments:	10:53 71/71 Drinking Water (Total/Dissolved)	Received	
Sample# Sample Name: Sample Type:			Water\Drinking Water 02/09/12 14:11	Sample Logged In: Sample Received:	
Total Mercury by	y 245.1	Expires: 03/08/12 1 Analysis Comments: Sample Comments	4:11 71/71 Drinking Water (Total/Dissolved)	Received	
Sample# Sample Name: Sample Type:		The state of the s	Water\Drinking Water 02/10/12 14:30	Sample Logged In: Sample Received:	02/11/12 14:15 02/11/12 10:04
Total Mercury by		Expires: 03/09/12 1 Analysis Comments: Sample Comments	4:30 71/71 Drinking Water (Total/Dissolved)	Received	
Sample# Sample Name: Sample Type:			Water\Drinking Water 02/10/12 11:37	Sample Logged In: Sample Received:	
Total Mercury by	/ 245.1	Expires: 03/09/12 1 Analysis Comments: Sample Comments	1:37 71/71 Drinking Water (Total/Dissolved)	Received	±
Sample# Sample Name: Sample Type:			Water\Water 02/09/12 13:36	Sample Logged In: Sample Received:	
Total Mercury by		Expires: 03/08/12 1 Analysis Comments: Sample Comments	3:36 71/71 Drinking Water (Total/Dissolved)	Received	
Sample# Sample Name: Sample Type:			Water\Drinking Water 02/10/12 11:22	Sample Logged In: Sample Received:	02/11/12 14:15 02/11/12 10:04
Total Mercury by		Expires: 03/09/12 1 Analysis Comments: Sample Comments	1:22 71/71 Drinking Water (Total/Dissolved)	Received	
Sample# Sample Name: Sample Type:		to the second service to the territory	Water\Drinking Water 02/10/12 11:21	Sample Logged In: Sample Received:	
Total Mercury by		Expires: 03/09/12 1 Analysis Comments: Sample Comments:	1:21 71/71 Drinking Water (Total/Dissolved)	Received	, , , , , , , , , , , , , , , , , , ,

Sample# Sample Name: Sample Type:		Lab\Report Matrix Date Sampled	Water\Drinking Water 02/09/12 14:49	Sample Logged In: Sample Received:	02/11/12 14:15 02/11/12 10:04
Total Mercury by		Expires: 03/08/12 Analysis Comments Sample Comments	1 45 19 19 19 19 19 19 19 19 19 19 19 19 19	Received	,
Sample# Sample Name: Sample Type:		Lab\Report Matrix Date Sampled	Water\Drinking Water 02/10/12 14:08	Sample Logged In: Sample Received:	02/11/12 14:15 02/11/12 10:04
Total Mercury by	245.1	Expires: 03/09/12 Analysis Comments Sample Comments		Received	
Sample# Sample Name: Sample Type:		Lab\Report Matrix Date Sampled	Water\Drinking Water 02/10/12 11:02	Sample Logged In: Sample Received:	02/11/12 14:15 02/11/12 10:04
Total Mercury by		Expires: 03/09/12 Analysis Comments: Sample Comments		Received	
Sample# Sample Name Sample Type:		Lab\Report Matrix Date Sampled	Water\Drinking Water 02/09/12 14:26	Sample Logged In: Sample Received:	02/11/12 14:15 02/11/12 10:04
Total Mercury by		Expires: 03/08/12 Analysis Comments: Sample Comments		Received	
Sample# Sample Name Sample Type:		Lab\Report Matrix Date Sampled	Water\Water 02/10/12 11:21	Sample Logged In: Sample Received:	02/11/12 14:15 02/11/12 10:04
Total Mercury by		Expires: 03/09/12 Analysis Comments: Sample Comments	and the second of the second o	Received	